

Date: Fri, 15 Jan 93 15:13:30 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #66
To: Info-Hams

Info-Hams Digest Fri, 15 Jan 93 Volume 93 : Issue 66

Today's Topics:

 "Public" FD Sites
 6C21 radar pulse tube
 Anybody want to talk about Clover? (3 msgs)
 Beginner's Rig
 FCC General Radiotelephone license in aviation
 FT-530 UPDATE!
 HTs at Disneyland (2 msgs)
 Old HT PL units available?
 STOLEN: TS-440-S from Berkeley, CA
 Testing for radio/car computer problems
 USAF MARS has new address
 USCG cw changes
 Whats a neper (de WB2EMS)
 Yaesu FT 5100 Reviews??

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 15 Jan 93 16:36:37 GMT
From: news-mail-gateway@ucsd.edu
Subject: "Public" FD Sites
To: info-hams@ucsd.edu

Our club, the Disneyland Amateur Radio Club, operates Field Day each year
from the Tennisland tennis club facility near the Disneyland Hotel. Although
the tennis players aren't all that interested in the amateur operation, we do
have a lot of people dropping by to see what's going on when they see the

towers and such we put up each time.

In 1992, a sizeable quake struck Southern California. We were already well on the way to being set up by that time. No damage in Orange County -- this was the double whammy where one hit out by Twentynine Palms and the second in Big Bear -- but shortly after the quake an Anaheim Police Department patrol car came through the area, saw our operation and stopped in. The officer's expression and words were priceless: mouth agape, he said, "Gee, you guys are already set up so soon after the quake? I'm impressed!" (We had to force ourselves to explain the =real= situation to him.... ;-))

//Steve//

KB60JS

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      CCCCCCCCC /-----\
      CCCCCCCCC |Steve Silverwood      |
      CCC       |Computer Associates    |
      CCC      AAAA |Clipper Development Center |
      CCC      AAAAA |300 Corporate Pointe  |
      CCC      AAAAAA |Second Floor         |
      CCC     AAA AAA |Culver City, CA  90230  |
      CCC AAA  AAA +-----+
      CCAAACCCCCC |Internet:      76703.3035@compuserve.com |
      AAACCCCCCCC |CompuServe:    76703,3035      |
      AAA        AAA |Voice:      (310)348-4448      |
      AAA        AAA |FAX:      (310)348-4401      |
      AAA        AAA |Packet:    KB60JS@WF60.#SOCA.CA.USA.NA |
      \-----+-----/

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Date: 15 Jan 93 18:23:10 GMT
From: news-mail-gateway@ucsd.edu
Subject: 6C21 radar pulse tube
To: info-hams@ucsd.edu

I'm hoping to build a linear based on a design I found that uses a 6C21 surplus radar pulse tube. This tube seems to be somewhat obscure, does anyone know of a source for this tube?

--

Stephen P. Baker
Lecturer in Biostatistics
Department of Academic Computing
University of Massachusetts Medical School
55 Lake Avenue North

phone: (508) 856-2625
(508) 856-3131 fax
(413) 253-3923 home
bitnet: sbaker@umassmed.bitnet
internet: sbaker@umassmed.ummed.edu

Worcester, MA 01655

rf: -. .---- -. - -. -

Date: 15 Jan 93 16:29:40 GMT
From: idacrd!wahoo!n4hy@uunet.uu.net
Subject: Anybody want to talk about Clover?
To: info-hams@ucsd.edu

de N3HAU:

>OK, what is a good reference on the Clover modulation scheme?
>Here's another question: We have a AEA-1232 DSP at W3EAX, U of M
>ARC. We have a bunch of people who have had some DSP, not to mention
>easy access to communication major grad students. There doesn't
>appear to be any documentation on writing your own DSP routines that
>came with the AEA. Where can one obtain documentation on the AEA
>DSP engine (programming it and such)??

I am no longer associated with the AEA DSP effort in any way so I am
unable to help you. I do not even know what the latest hardware looks
like, or even if changes have been made or even if they have anyone else
writing code for the box. I suggest you contact Al Chandler, K6RFK,
their VP Engineering directly and ask for this information.

On Clover, Paul Flaherty says they have published the data required.
Maybe he will respond to this note and give details on acquiring the
reference.

BMc

Date: 15 Jan 93 15:45:31 GMT
From: news-mail-gateway@ucsd.edu
Subject: Anybody want to talk about Clover?
To: info-hams@ucsd.edu

Kevin G8UDP/N7WIM (a-kevinp@microsoft.com) comments...

>One thing that bugs me though is the spectral efficiency plots. These
>show a CLOVER signal about 500Hz wide with "brick wall" like edges down
>to -80dB. But after you've passed the signal through any sort of linear
>amplifier, its going to have much wider tails (just like SSB signals)
>due to IMD. This isn't a serious problem but makes the plots look a
>little less spectacular.

Depends on how linear your 'linear' is.....

I would expect 3rd order intermod. to be at least 35dB down, and intermod products to be at least 80dB down at +/-10KHz in a 'ham-grade' linear. Even at this spec. i would not like to share a site with such a machine though. Most ham-grade 'linear amplifiers' are anything but linear when driven to much more than 50% of their rated output. IMHO any biolar-transistor linear that operates in anything other than pure class 'a' is *not* a linear amplifier!.

-Pete Lucas G6WBJ PJML@swmis.nsw.ac.uk@nsfnet-relay.ac.uk

Date: 15 Jan 1993 19:43:53 GMT

From: sdd.hp.com!cs.utexas.edu!bcm!lib!oac.hsc.uth.tmc.edu!

jmaynard@network.UCSD.EDU

Subject: Anybody want to talk about Clover?

To: info-hams@ucsd.edu

In article <9301141327.aa14705@ingate.microsoft.COM> a-kevinp@microsoft.COM (Kevin Purcell, Rho) writes:

>2. There is nothing to stop you personally making a copy of the
>patented device for your personal use, you just can't sell them.

Actually, the US patent laws (at least) prohibit making, selling, or using an infringing device/method/whatever.

--

Jay Maynard, EMT-P, K5ZC, PP-ASEL | Never ascribe to malice that which can
jmaynard@oac.hsc.uth.tmc.edu | adequately be explained by stupidity.

"I don't want to read poor Microsoft bashing. I want to read good
Microsoft bashing." -- Douglas A. Bell, in comp.os.os2.advocacy (Me too!)

Date: Fri, 15 Jan 1993 17:49:41 GMT

From: noc.near.net!lynx!lkay@uunet.uu.net

Subject: Beginner's Rig

To: info-hams@ucsd.edu

In article <63433@mimsy.umd.edu>, furuta@cs.umd.edu (Richard Furuta) writes:

> In article <9301142246.AA06289@opus.xyplex.com>

sasminkey@eng.xyplex.com writes:

> >>Just a Tip ... Radio Shack just put their HDX-100 ten meter rig

> >>on sale for \$199.

> >

> [...]

A good beginner's rig? Is used OK? If \$199 is in your budget, then go to any reasonable sized hamfest, the local 'Want Ads' tabloid, or

the ham-ads in QST, and pick up a Kenwood TS-520 for ~\$300.

It'll last forever, put out 100W, it won't die if the SWR is 3:1, and you'll have 4 other bands (or 5) besides 10 meters. And you can turn right around next year and resell it for \$300.

Good luck,
73, Len

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-----  
Dr. Leonard Kay, KB2R          | "But we are not dealing with the  
Electrical and Computer Engineering | normal world. We are chasing DX."  
Northeastern University, Boston | -- W9KNI, 'The Complete DXer'  
NU ARC: W1KBN 145.31(-)        |  
Packet: KB2R@K1EA             | #include <disclaimer.h>  
-----
```

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-----  
Date: 15 Jan 93 18:12:52 GMT  
From: pacbell.com!rtech!ingres!kerry@network.UCSD.EDU  
Subject: FCC General Radiotelephone license in aviation  
To: info-hams@ucsd.edu
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>In article <1993Jan13.213951.24970@Csl.Stanford.EDU> kawai@csl.Stanford.edu  
(goh kawai - n6uok) writes:  
>...Dear all  
>...  
>...What is the practical significance of holding an FCC General Radiotelephone  
>...license as far as aviation is concerned?
```

Operating aviation radios outside the US requires an operators license, usually a FCC Restricted Radio Telephone Operator's Permit (FCC Form 753).

To work on aviation radios, you need at least a FCC General Radiotelephone Permit. (You probably also need a Repairman's certificate, or work for an authorized repair station. Al?)

The General Radiotelephone Permit has all the privileges of the Restricted Radio Telephone Operator's Permit.

Finally, you can get more information from the FCC Rules, Part 87, "Aviation Services" (which I don't have). Looks like it is available from the GPO, Washington DC 20402, telephone (202) 783-3238.

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Date: 15 Jan 93 19:55:06 GMT
From: olivea!apple!goofy!nuntius@ames.arpa
Subject: FT-530 UPDATE!
To: info-hams@ucsd.edu

I spoke with someone else at Yaesu a few minutes ago (Chip in service) and he as MUCH more "in the know" than the other gentleman I spoke to (Tony).

Chip verified that they are aware of and working on both the intermod problem (which every unit has a problem with) AND the crosstalk between the two audio channels. The later problem is a bit harder to track down as only some of the units have this problem. They believe it might be a leaky component of some type. They'll try to make the mod a "field" mod so we don't have to be without the unit.

He said he'd call when they have it all figured out. I'll post here as information is passed to me.

Will
KB5WRK

Date: Fri, 15 Jan 1993 15:06:07 GMT
From: sdd.hp.com!hpscit.sc.hp.com!icon.rose.hp.com!bparrish@network.UCSD.EDU
Subject: HTs at Disneyland
To: info-hams@ucsd.edu

Does anyone know if there is any problem with using handytalkies while visiting Disneyland? My XYL and I were thinking of using them to keep track of each other when we go down later this year.

I had heard that some amusement parks don't allow any sorts of radios (including pagers) because gangs use them for whatever activities they have planned.

I would hate to have to leave the hts with Disney security for a day soooo... has anyone done this recently?

Thanks and 73.

Bill Parrish (KM6KV) -- and Shannon KD6CMX

Date: 15 Jan 93 20:08:53 GMT

From: biosci!netnews.synoptics.com!lanshark!ericd@ames.arpa
Subject: HTs at Disneyland
To: info-hams@ucsd.edu

In article DAB@icon.rose.hp.com, bparrish@rose.hp.com (Bill Parrish) writes:
>Does anyone know if there is any problem with using handytalkies while
>visiting Disneyland? My XYL and I were thinking of using them to keep
>track of each other when we go down later this year.

On my last visit to DL, a friend N7XJC and myself took our HT's.
We too had heard the story about "no radio's in the park". From what I
have heard on the net, this is enforced. We avoided using them
around park employees, kept them hidden during entry to the park, and out of
site when not in use. You might consider getting a remote mic and stuff the radio
into a backpack, or such. Again keep the mic put away when not in use.

We were using 70cm and 2m Simplex with no problem. If you have paging or tone
squellch, use it. It will avoid idle chatter coming from your radio.
Also while in DL you have to work the 2m DL repeater. It is required. :-)
I don't have the freq on hand, someone here should have it.

Good luck, and have a great trip!

Eric

=====

In real life: Eric Davis
On the internet: ericd@synoptics.com
On the air: KD6HT0 (440.85, +, 100Hz PL, North-Central CA)
On packet radio: KD6HT0 @ N6IYA.#NOCAL.CA.US.NA
Home: LAT:37 03 04 N LON: 122 00 49 W ALT: 570

=====

If you teach you children nothing else about firearms, teach
them this: "If you find a gun, stop, don't touch it, leave the area
and tell an adult." It can save a life.

=====

Date: 15 Jan 93 19:07:07 GMT
From: news.service.uci.edu!ucivax!gateway@network.UCSD.EDU
Subject: Old HT PL units available?
To: info-hams@ucsd.edu

I have a chance at two older radios, an ICOM 2A and a Kenwood TH 21AT,
both for a decent deal. My question (living in SoCal), is:

Does anyone still carry or install PL units in these radios?

I recall the ICOM has a single switch for PL tone. I think the Kenwood is the same, though some would cut a hole in the radio and put in a set of dip switches to choose the tone. Anyone know any sources or have suggestions?

Thanks

Clark, WA3JPG

Date: 15 Jan 1993 22:40:02 GMT
From: agate!violet.berkeley.edu!inp@ames.arpa
Subject: STOLEN: TS-440-S from Berkeley, CA
To: info-hams@ucsd.edu

Please put the word out that a Kenwood TS-440-S was stolen on about Wednesday, Jan 13 from Hesse Hall, UC Berkeley, CA. Keep your eye out for a new-condition 440 being sold used, etc. The serial number is 9070602. If you have any information, please contact the UC Police at 510-642-6760, AND mail hams@violet.berkeley.edu. Thanks, Bob for W6BB

Date: 15 Jan 93 16:21:17 GMT
From: saimiri.primite.wisc.edu!zaphod.mps.ohio-state.edu!swrinde!emory!ncratl!ncrhub2!ciss!law7!jra@ames.arpa
Subject: Testing for radio/car computer problems
To: info-hams@ucsd.edu

I just installed a Kenwood TM-732 in my new car. (It's a <wonderful> radio, btw)

So far I haven't seen any signs of RFI in the car when I transmit, but with all the gizmos and gadgets, I wonder if anyone can recommend a test suite I can run to make sure that nothing untoward will happen when I transmit while driving.

In particular, I'm concerned about the ABS system, since the radio and the diplexer are mounted in the trunk, very near the ABS controller, although the antenna is on the roof and not the trunk lid (so that should help...). Apart from the ABS, the radio, diplexer and feedline are well clear of any other wiring or computers. FWIW, the car is a

'93 Maxima.

Thanks for any insight the mechanics out there can offer...

amount of electronics in this thing

--

John R. Ackermann, Jr. Law Department, NCR Corporation, Dayton, Ohio
(513) 445-2966 John.Ackermann@daytonoh.ncr.com
Packet Radio: ag9v@n8acv.oh tcp/ip: ag9v@ag9v.ampr [44.70.12.232]

Date: Fri, 15 Jan 1993 17:48:36 GMT
From: swrinde!zaphod.mps.ohio-state.edu!pacific.mps.ohio-state.edu!cis.ohio-state.edu!udecc.engr.udayton.edu!blackbird.afit.af.mil!jmill@network.UCSD.EDU
Subject: USAF MARS has new address
To: info-hams@ucsd.edu

The USAF MARS office has a new address:

HQ AFCC/SYXR (MARS)
203 W. Losey St. Room 1020
Scott AFB, IL 62225-5219

The old phone numbers are still valid.

(FAQ honcho: please update the FAQ listing -- thanks!)

73, Jeff

--

Jeff Miller, NH6ZW/N8, AFA1HE (ex WD6CQV, AFA8JM, AFA1D0)
AFIT School of Engineering, Wright-Patterson AFB, OH
"You gotta expect some losses when you fly the heavies, man" -- Jeff Conn
Help eliminate FOD in our lifetime.

Date: 15 Jan 93 15:54:40 GMT
From: swrinde!zaphod.mps.ohio-state.edu!howland.reston.ans.net!
paladin.american.edu!gatech!emory!ncrat1!ncrhub2!ncrc1m!tskelton@network.UCSD.EDU
Subject: USCG cw changes
To: info-hams@ucsd.edu

<1993Jan15.024044.25624@bongo.tele.com>

Sender:

Reply-To: tskelton@ncrc1m.ClemsonSC.NCR.COM (Tom Skelton)

Followup-To:

Distribution:

Organization: NCR E&M CLEMSON Liberty, SC

Keywords:

In article <1993Jan15.024044.25624@bongo.tele.com> julian@bongo.tele.com

(Julian Macassey) writes:

>In article <86PDXB1w165w@tosspot.sv.com> lee@tosspot.sv.com (Lee Reynolds)
writes:

>>

>>U.S. COAST GUARD TO DISCONTINUE WATCHKEEPING ON THE DISTRESS

>>FREQUENCY 500 KHZ AND CEASE ALL MORSE CODE SERVICES

>

>

> My God! The gasping geezers must be reaching for their nitro

>pills and looking over their Forest Lawn "pre need" contracts. No more

>Morris from the Coast Guard. Whatever next? Nuns on birth control

>pills?

>

>

>--

>Julian Macassey at bongo. julian@bongo.tele.com Voice: (213) 653-4495

>Paper Mail: 742 1/2 North Hayworth Avenue, Hollywood, California 90046-7142

Nope....gave up nitro pills for Lent...

Didn't worry about Coast Guard anyhow...I can't QSL them.

However, in the immortal words of Clint Eastwood:

** You can have my keyer when you can pry it out of my cold, dead
hands...**

73, Tom WB4IUX (certified OF at age 38...joining QCWA this year)

cu in the cw pileups.....

--

Date: 15 Jan 93 21:32:59 GMT

From: news-mail-gateway@ucsd.edu

Subject: Whats a neper (de WB2EMS)

To: info-hams@ucsd.edu

The neper is the natural logarithm of an amplitude ratio. That is, log to the base e, where $e = 2.718$. Of course the Bel is the logarithm to the base 10 of a power ratio, and a dB is 0.1 times that. The conversions are 1 neper = 8.686 db and 1 dB = 0.115 nepers (if the impedance is constant). Now if you want

to know why logs to the base e are important that is another story.
73 Jim W3CPB

Date: Fri, 15 Jan 1993 17:49:39 GMT
From: shearson.com!newshost!mjohnsto@uunet.uu.net
Subject: Yaesu FT 5100 Reviews??
To: info-hams@ucsd.edu

In article <1993Jan15.064829.13871@kd4nc.uucp> n4tii@kd4nc.uucp (John Reed)
writes:

(all the good stuff about PL scanning etc, deleted..)

I think the newer Kenwood rigs will do this. My Kenwood TH-77a will do it.
I have several channels in memory with a PL decode enabled. When scanning,
it will only stop and open the squelch if the proper PL is set. Otherwise,
it keeps on scanning as if it never heard a thing. I imagine the Kenwood
TM-241 or something probably has this feature...but I am not sure.

My new Alinco DJ-580T also has this feature and I use it often. Of course,
finding the PL is another matter entirely. I really wish these rigs
would offer a PL-Display mode that'd indicate which PL is used during
a transmission.

MJ

--

Michael R. Johnston, System Administrator mjohnsto@shearson.com
"The reasonable man adapts himself to the world; the unreasonable one
persists in trying to adapt the world to himself. Therefore, all progress
depends on the unreasonable man." - G.B. Shaw

Date: Fri, 15 Jan 1993 19:37:40 GMT
From: swrinde!sdd.hp.com!crash!telesoft!garym@network.UCSD.EDU
To: info-hams@ucsd.edu

References <1993Jan14.160128.7138@telesoft.com>,
<1993Jan14.185149.9899@telesoft.com>, <1993Jan14.235424.14613@telesoft.com>
Subject : STS-54 Element Set (015.26)

These elements for STS-54 are based on NORAD radar data as of orbit 28.
They originate from GSFC and JSC.
--GaryM

STS-54

```
1 22313U 93 3 A 93015.26855535 0.00062469 00000-0 20323-3 0 84
2 22313 28.4706 142.2944 0006372 259.2579 100.7315 15.89178370 289
```

Satellite: STS-54

Catalog number: 22313

Epoch time: 93015.26855535 (15 JAN 93 06:26:43.18 UTC)

Element set: GSFC-008

Inclination: 28.4706 deg

RA of node: 142.2944 deg Space Shuttle Flight STS-54

Eccentricity: 0.0006372 Keplerian Elements

Arg of perigee: 259.2579 deg

Mean anomaly: 100.7315 deg

Mean motion: 15.89178370 rev/day Semi-major Axis: 6682.7175 Km

Decay rate: 0.62E-03 rev/day*2 Apogee Alt: 308.59 Km

Epoch rev: 28 Perigee Alt: 300.07 Km

NOTE - This element set is based on NORAD element set # 008.

The spacecraft has been propagated to the next ascending node, and the orbit number has been adjusted to bring it into agreement with the NASA numbering convention.

R.A. Parise, Goddard Space Flight Center

G.L.CARMAN

--

Gary Morris KK6YB Internet: elements-request@telesoft.com

San Diego, CA, USA Phone: +1 619-457-2700

Date: 15 Jan 93 05:11:22 GMT

From: bobsbox.rent.com!s4mjs!kc2wz!bob@RUTGERS.EDU

To: info-hams@ucsd.edu

References <1993Jan12.193722.12564@osuunx.ucc.okstate.edu>,

<1993Jan4.222522.20042@news.columbia.edu>, <14570576@hpnmdla.sr.hp.com>

Subject : Re: Need a 3rd hand for Soldering!?

martin@datacomm.ucc.okstate.edu (Martin McCormick) says:

[...]

> For those who are curious, it is possible for a blind person to >solder,
>but one, obviously, has to do some things differently. It is better to use
>one of those little cordless soldering guns with the finest tip, available.

W2VJZ's father (I believe his call was W2GJZ or W2GZJ (now a silent key)) was

blind. He built absolutely beautiful _tube_ gear unaided. He certainly didn't use a cordless iron on that! :-) The workmanship was truly breathtaking. :-)

--

Bob Billson, KC2WZ | internet: bob@kc2wz.bubble.org
\$nail: 21 Bates Way, Westfield, NJ 07090 | uucp: ...!uunet!kc2wz!bob

"Professional ear piercing--while you wait!" --sign in local jewelry store

Date: 15 Jan 93 20:40:18 GMT
From: stanford.edu!CSD-NewsHost.Stanford.EDU!abercrombie.Stanford.EDU!
paulf@uunet.uu.net
To: info-hams@ucsd.edu

References <N4HY.93Jan14124741@tang.UUCP>, <1j4no4INNh84@mojo.eng.umd.edu>,
<N4HY.93Jan15112940@wahoo.UUCP>
Subject : Re: Anybody want to talk about Clover?

n4hy@wahoo.UUCP (Bob McGwier) writes:

>On CLover, Paul Flaherty says they have published the data required.
>Maybe he will respond to this note and give details on acquiring the
>reference.

The HAL sales literature describes the modulation constellations, the Reed Solomon codes used, and gives a description of the pulse shape. Missing items include the tracking algorithm, the RS code polynomials, and a full description of the ARQ mode. These may be in Petit's articles in the 10th and 11th ARRL CNCs, I don't know.

It should be noted that the HAL CLOVERII product is actually a HAL PCI-4000 with CLOVERII software; the PCI-4000 is a drop in DSP card for PC/AT and above clones.

End of Info-Hams Digest V93 #66
